09-26-03

PTO/SB/21 (08-00)

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FAIRAL TRAI			Application Number	10/618,288
P IRA	NSMITTAL	-	Filing Date	April 25, 2003
	FORM		First Named Inventor	Thomas E. Barta, et al.
(to be used for all co	orrespondence after	initial filing)	Group Art Unit	Unknown
			Examiner Name	Unknown
otal Number of Pag	es in This Submissio	n	Attorney Docket Number	00988/1/US (6794-000053/US)
		ENCLO	OSURES (check all that apply)	
Fee Transmittal	Form		ment Papers Application)	After Allowance Communication to Group
Fee Attache	d	☐ Drawin	g(s)	Appeal Communication to Board of Appeals and Interferences
Amendment / Re	esponse	Licensi	ng-related Papers	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final		Petition	1	Proprietary Information
Affidavits/de	claration(s)		n to Convert to a onal Application	Status Letter
Extension of Tim	e Request		of Attorney, Revocation e of Correspondence Address	Other Enclosure(s) (please identify below):
Express Abando	nment Request	1=	al Disclaimer st for Refund	FORM HDP-1449 29 References
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Response to Mis				
Response to Parts under 1.52 or 1.53				
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT				
Firm <i>or</i> Individual name	David M. Gryte, P Harness, Dickey &			
Signature		21,	14	
Date	September 25, 20	03		
		CEF	RTIFICATE OF MAILING	
I hereby certify that t	nis correspondence i	s being depos	sited with the United States Pos	tal Service as first class mail in an envelo
addressed to: Comm	issioner for Patents,	P.O. Box 145	0, Alexandria, VA 22313-1450	
on this date: Sep	tember 25, 2003			
Typed or printed nam	ne David M. Gry	te		
Signature	7		18	Date September 25, 2003



TApplication of:

Thomas E. Barta, et al.

Serial No:

10/618,288

Filed:

April 25, 2003

For:

Piperidinyl- and Piperazinyl- Sulfonylmethyl Hydroxamic Acids and

Their Use as Protease Inhibitors

Confirmation No:

TBA

Art Unit:

TBA

Examiner:

TBA

Attorney Ref: HDP Ref:

00988/1/US 6794-000053/US

September 25, 2003

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Madam/Sir:

To comply with 37 CFR §1.97 and §1.98, Applicants submit the enclosed supplemental Form PTO-1449 and copies of all documents listed on that form.

In accordance with MPEP §609 and §707.05(b), Applicants respectfully request that each document listed be given thorough consideration and that the Examiner cite each document of record in the prosecution history of the present application by initialing Form PTO-1449 next to each document. Applicants request such initialing even if the Examiner does not consider: (1) a listed document to be sufficiently pertinent to use in a rejection; (2) a document to be prior art for any reason; or (3) that the guidelines for citation have been fully complied with respecting a particular document. Applicants make this request so that each document becomes cited on the face of a patent issuing on the present application.

Applicants submit this Information Disclosure Statement in compliance with the duty to disclose information material to patentability under 37 CFR §1.5, but by listing such documents Applicants are not admitting that such documents are necessarily relevant or prior art.

Applicants intend no representation that the listed documents represent the results of a complete search. Applicants anticipate that the Examiner, in the normal course of examination, will make an independent search consistent with 37 CFR §1.104(a) and §1.106(b) and, in the course of such

Second Supplemental Information Disclosure Statement

September 25, 2003 Appl. No. 10/618,288

search, will review for relevance every document listed on the attached form even if not initialed.

Applicants make no representation as to the accuracy of any translation provided with this Information Disclosure Statement.

Applicants request early and favorable consideration.

Applicants believe that they do not owe any fee in connection with this Information Disclosure Statement. If, however, Applicants do owe any such fee(s), the Commissioner is hereby authorized to charge the fee(s) to Deposit Account No. **08-0750**. In addition, if there is ever any other fee deficiency or overpayment under 37 C.F.R. §1.16 or §1.17 in connection with this patent application, the Commissioner is hereby authorized to charge such deficiency or overpayment to Deposit Account No. **08-0750**.

Respectfully submitted,

David M. Gryte, PTO Reg. No. 41,809

Harness, Dickey & Pierce 7700 Bonhomme, Suite 400 St. Louis, Missouri 63105 (314) 726-7500 (tel)

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CERTIFICATE OF MAILING UNDER 37 CFR § 1.8

I certify that this correspondence is being deposited with the U.S. Postal Service on September 25, 2003 with sufficient postage as first class mail (including Express Mail per MPEP § 512), and addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.
00988/1/US (6794-000053/US)	10/618,288
APPLICANT ·	
Thomas E. Barta, et al.	
FILING DATE	GROUP
April 25, 2003	Unknown

U.S. PA	ATENT DOC	UMENTS				
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate)

FORE	IGN PATENT	DOCUMENTS					· · · · · ·	
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translat Yes	Translation Yes No	
56.		WO 00/46221	8/10/00	PCT	C07D 405/12			
57.		WO 00/50396	8/31/00	PCT	C07D 211/66			
, 58.		WO 00/59874	10/12/20	PCT	C07C 259/06			
59.		WO 00/69819	11/23/20	PCT	C07D 211/16			
60.		WO 00/69821	11/23/00	PCT	C07D 211/66			
61.		WO 00/74681	12/14/00	PCT	A61K 31/451			
62.		WO 02/092588	11/21/02	PCT	CO7D 309/08			
63.		WO 03/007930	1/30/03	PCT	A61K 31/166			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig	Examiner's Initials		
64.		Brown, "Synthetic Inhibitors of Matrix Metalloproteinases"; <i>Matrix Metalloproteinases</i> , pp. 243-261 (Academic Press, San Diego, CA, Eds. Park, W.C., & Mecham, R.P., 1998)	
65.		Dack, et al., "Preparation of N-hydroxytetrahydropyridylsulfonylacetamides and related compounds as matrix metalloprotease inhibitors," CA 131:44740 (1999) [CA Plus Accession No. 1999:388166]	
66.		Denis, et al., "Matrix metalloproteinase inhibitors: Present achievements and future prospects," <i>Invest New Drugs</i> , 15:175-185 (1997).	
67.		Freije, et al., "Molecular cloning and expression of collagenase-3, a novel human matrix metalloproteinase produced by breast carcinomas," <i>J. Biol. Chem.</i> , 269(24), pp. 16766-16773 (1994)	
68.		Gearing, et al., "Processing of tumour necrosis factor-α precursor by metalloproteinases," <i>Nature</i> , 370:555-557 (1994).	

Examiner:	Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.
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00988/1/US (6794-000053/US)	10/618,288
APPLICANT	
Thomas E. Barta, et al.	
FILING DATE	Group
April 25, 2003	Unknown

69.	Gu, et al., "S-Nitrosylation of Matrix Metalloproteinases: Signaling Pathway to Neuronal Cell Death," <i>Science</i> , 297, 1186-1190 (2002)
70.	Hughes, et al., "Monoclonal antibodies that specifically recognize neoepitope sequences generated by 'aggrecanase' and matrix metalloproteinase cleavage of aggrecan: application to catabolism <i>in situ</i> and <i>in vitro</i> ," <i>Biochem. J.</i> , 305, 799-804 (1995)
71.	Kenyon, et al., "A model of angiogenesis in the mouse cornea," <i>Invest Ophthalmol. Vis. Sci.</i> , 37(8):1625-1632 (1996).
72.	Knight, et al., "A novel coumarin-labelled peptide for sensitive continuous assays of the matrix metalloproteinases," <i>FEBS Lett.</i> , 296(3):263-266 (1992).
73.	Kuzmic, et al., "High-throughput screening of enzyme inhibitor: simultaneous determination of tright-binding inhibition constants and enzyme concentration," <i>Anal. Biochem.</i> , 286, 45-50 (2000)
74.	Luckow, et al., "Insect Cell Expression Technology", <i>Protein Enginerring: Principles and Practice</i> , pp. 183-218 (John Wiley & Sons, Inc., New York, NY, Edited by J.L. Cleland et al., 1996)
. 75.	Luckow, et al., "Efficient generation of infectious recombinant baculoviruses by site-specific transposon-mediated insertion of foreign genes into a baculovirus genome propagated in escherihia coli," J. Virol., 67(8):4566-4579 (1993)
76.	McClure, et al., "Matrix metalloprotease (MMP)-13 selective inhibitors for treatment of arthritis deformans and other MMP-related diseases," CA 131:125454 (1999) [CA Plus Accession No. 1999:468334]
77.	McGeehan, et al., "Regulation of tumour necrosis factor-α processing by a metalloproteinase inhibitor," <i>Nature</i> , 370:558-561 (1994).
78.	Mitchell, et al., "Cloning, expression, and type II collagenolytic activity of matrix metalloproteinase-13 from human osteoarthritic cartilage," <i>J. Clin. Invest.</i> , 97(3):761-768 (1996).
79.	Rasmussen, et al., "Matrix metalloproteinase inhibition as a novel anticancer strategy: a review with special focus on batimastat and marimastat," <i>Pharmacol. Ther.</i> , 75(1):69-75 (1997).
80.	Reboul, et al., "The new collagenase, collagnease-3, is expressed and synthesized by human chondrocytes but not by synoviocytes," <i>J. Clin. Invest.</i> , 97(9):2011-2019 (1996).
81.	Schwartz, et al., "Synthetic inhibitors of bacterial and mammalian interstitial collagenases," <i>Prog. In Med. Chem.</i> , 29:271-334 (1992).
82.	Tang, "ADAMTS: a novel family of extracellular matrix proteases," <i>Int'l J. Biochem. Cell Biol.</i> , 33, 33-44 (2001)
83.	Woessner, "The Matrix Metalloproteinase Family," <i>Matrix Metalloproteinases</i> , pp. 1-14 (Academic Press, San Diego, CA, Eds. Parks, W.C. & Mecham, R.P., 1998)
84.	A partial search report from PCT Appl. No. PCT/US03/13123

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